



ISOLATED CAPACITOR CHARGING POWER SUPPLY

- 1500W IN 7.3" x 4.4" x 8.3" OEM PACKAGE
- ELECTRONIC POWER FACTOR CORRECTED
- CE MARKED AND APPROVED TO UL 60601-1 MEDICAL SAFETY STANDARD
- LOW LEAKAGE CURRENT
- LOW EMI
- HIGH EFFICIENCY
- REMOTE HV PROGRAMMING



DESCRIPTION:

The **Model 5723** Isolated Capacitor Charging Power Supply uses a proprietary power conversion technique to repeatedly charge energy storage capacitors for pulsed, solid-state laser applications. The **Model 5723** provides the highest power density of any similar module on the market today and can be configured for either positive or negative output voltage. The **Model 5723** is designed to meet the isolation and leakage current requirements for the most stringent medical requirements and the control interface can be tailored to meet your present needs. For higher average power applications, ask about the AMI **Model 5753**.

SPECIFICATIONS:

Input

Voltage	103 to 127VAC, 1 ϕ , 50/60Hz (add -C to part number) or 198 - 253VAC, 1 ϕ , 50/60 Hz (add -D to part number)
HV Control	0 to 10V proportional control, 10k Ω input impedance (standard)
Inhibit	3.5 to 24VDC, 10k Ω input impedance

Connections

HV	Coax., MHV
Control	DB-15S, 15 pin D-sub
Power	Molex, 19-09-2038
Mate	Molex, 19-09-1039

Cooling

Forced air, fan included

Operating Temperature

0° to +40°C

Output

Power	1500W, 400V \leq V _{MAX} \leq 1500V 1250W, 1500V < V _{MAX} \leq 3000V Full power available over a large voltage range. (See power derating curve on reverse.)
Voltage (Maximum)	400V to 3000V (specify in part number) Negative output (add N to part number)
Regulation	0.1%
Efficiency	85% to 90% (typical)
Power Factor	>0.9 (typical)
Charged Indication	22VDC via 1k Ω output (typical)
Leakage Current	\approx 100 μ A typical
Protection	Open Circuit, Short Circuit, Thermal Overload, Over-Voltage

Size Weight

7.3" x 4.4" x 8.3"
7 lbs

Specifications subject to change without notice.

*U.S. Patent No. 5,461,297



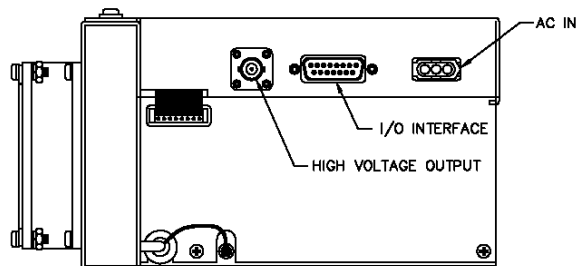
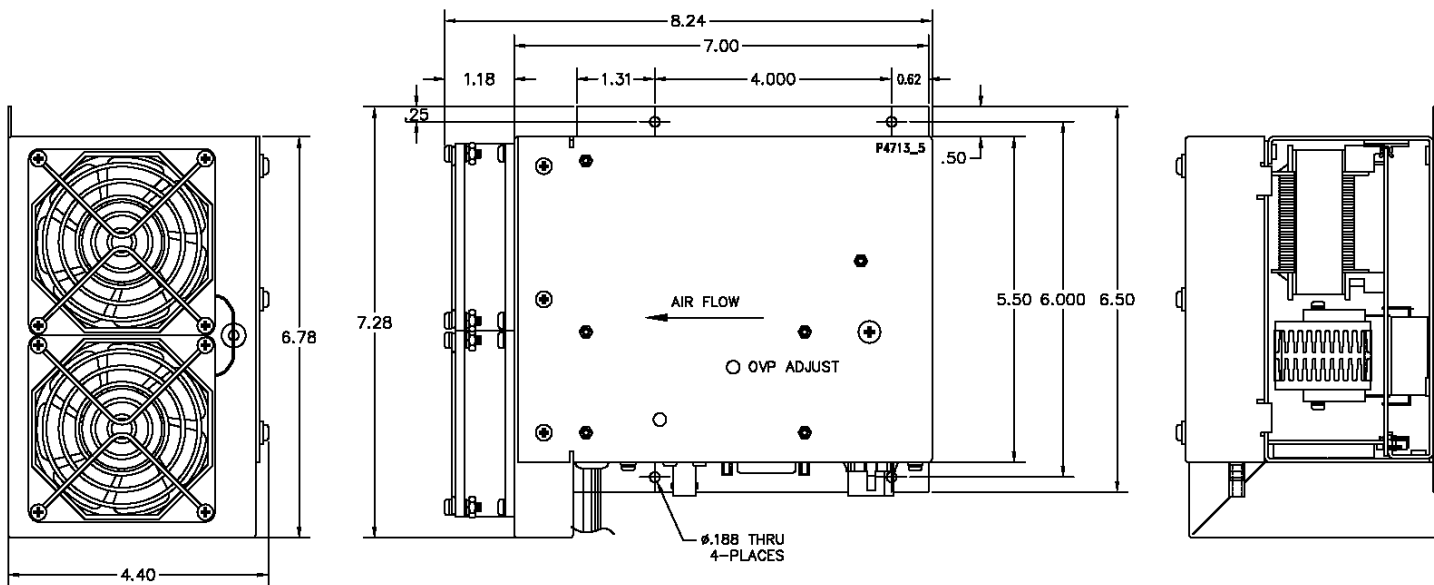
APPLICATIONS:

Capacitor Charging for Solid-State Lasers

		MODEL 5723-XXXX	
		OUTPUT POWER	
		230VAC Input	115VAC Input
Output Voltage (Maximum)	400V to 1500V*	1500W	1000W
	1500V to 3000V	1250W	800W

Typical Part Number: **5723-1500N-2-D =**

Output Voltage: -1500VDC (Negative)
Output Power: 1500W
Input Voltage: 230VAC, 1Ø, 50/60Hz



I/O INTERFACE (-2)	
PIN	DESCRIPTION
1	INHIBIT
2	N/C RESERVED
3	OVERTEMP STATUS INDICATOR
4	PROGRAM RTN / GND
5	PROGRAM VOLTAGE
6	OVERVOLTAGE STATUS INDICATOR
7	VOUT PEAK HOLD
8	VOUT MONITOR
9	+12VDC
10	N/C RESERVED
11	+10V REFERENCE
12	SIGNAL RETURN
13	END OF CHARGE INDICATOR
14	SIGNAL RETURN
15	GROUND INTERLOCK

